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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/868,706	09/25/2001		Robert Baldemair	032287-021	3213
27045	7590	07/29/2005		EXAM	INER
ERICSSON	INC.		BURD, KEVIN MICHAEL		
6300 LEGACY DRIVE M/S EVR C11				ART UNIT	PAPER NUMBER
PLANO, T				2631	
				DATE MAILED: 07/29/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summer	09/868,706	BALDEMAIR, ROBERT				
Office Action Summary	Examiner	Art Unit				
	Kevin M. Burd	2631				
The MAILING DATE of this communicat Period for Reply	ion appears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1,704(b).	TION. CFR 1.136(a). In no event, however, may a reation. ys, a reply within the statutory minimum of thirty y period will apply and will expire SIX (6) MON' by statute, cause the application to become AB.	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed o	n 02 June 2005.					
3) Since this application is in condition for	allowance except for formal matte	ers, prosecution as to the merits is				
closed in accordance with the practice t	ınder <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-4</u> is/are pending in the applic	eation.					
4a) Of the above claim(s) is/are w						
5) Claim(s) is/are allowed.		•				
6)⊠ Claim(s) <u>1-4</u> is/are rejected.		•				
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Ex	caminer.					
10) The drawing(s) filed on is/are: a)		by the Examiner.				
Applicant may not request that any objection						
Replacement drawing sheet(s) including the	correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for t	foreian priority under 35 U.S.C. &	119(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:		1.10(4) (5) 51 (1).				
1. Certified copies of the priority doc	uments have been received.					
2. Certified copies of the priority doc		oplication No				
Copies of the certified copies of the	ne priority documents have been	received in this National Stage				
application from the International		•				
* See the attached detailed Office action fo	r a list of the certified copies not r	received.				
AMaahuu4/->						
Attachment(s) 1) Notice of References Cited (PTO-892)		(DTO 442)				
2) 🔲 Notice of Draftsperson's Patent Drawing Review (PTO-9	948) Paper No(s)	ummary (PTO-413) /Mail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 	/SB/08) 5) Notice of In: 6) Other:	formal Patent Application (PTO-152) 				

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1. This office action, in response to the amendment filed 6/2/2005, is a final office action.

Response to Arguments

- 2. The rejection of claims 1-4 under 35 USC 112, second paragraph is withdrawn.
- 3. Applicant's arguments filed 6/2/2005 have been fully considered but they are not persuasive. Applicant states Moose fails to teach that a guard interval has a length that is greater than or equal to the memory length of the transmission channel. The examiner disagrees. Moose teaches guard times are transmitted between successive bauds during which no signal is sent to prevent received baud overlap (column 2, lines 55-58). Therefore, the guard time (length) will be equal to or greater than the time between the transmissions of the successive bauds. This time is the memory length. Applicant states Moose fails to teach demodulation is carried out in a receiver by means of a FFT with a receiver transformation length that is greater than or equal to the sum of the transformation length and the length of the guard interval. The examiner disagrees. Moose discloses guard times are inserted in the transmission. This will equal some guard length. The output of the IFFT is going to be some length and this output will be transmitted with the guard length. Therefore, the receiver transformation length (the signal received from the transmitter) will equal the transformation length plus the guard interval.

For these reasons and the reasons stated in the previous office action, the rejections of the claims are maintained and stated below.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Moose (US 5,166,924).

Regarding claims 1, 2 and 4, Moose discloses a method and apparatus utilizing multi-frequency modulation (MFM) techniques for modulating and demodulating digital information signals (column 3, lines 65-68). The signals are modulated and transmitted by an inverse Fast Fourier Transform (IFFT) and are demodulated in a receiver by a FFT (figures 6, 7 and 9 and column 4, lines 53-68). The transformation length on the transmitter side will be some value. Guard times are inserted in the transmission and received at the receiver (column 5, line 54 to column 6, line 3). The receiver will then receive the transmitted signal length and the added guard length (transmitted over the guard time). The signal values over the guard time have signal amplitudes of zero (column 5, line 67 to column 6, line 3).

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Regarding claim 3, the received transforming length will equal twice the transmitted transforming length when the guard interval is the same length as the transforming length.

Conclusion

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Friday 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Burd

7/27/2005

KEVIN BURD PRIMARY EXAMINER